

## Claims

1. A transmission cable constructed by multilayer technique, located in a cavity comprising a first surface and a second surface essentially parallel with the first surface, said transmission cable consisting of a signal cable (20, 30, 40, 50, 60), which is essentially parallel to the first cavity surface, and of a ground cable (21, 31, 41, 51, 61), which is placed on said second surface, essentially in parallel with the signal cable, **characterised** in that said cable also comprises a support element (25, 35, 45, 55, 65) which has a surface that is essentially parallel with said first and second surfaces and is located between said first and second surfaces, so that the signal cable is realised by means of an electroconductive material layer formed on the surface of the support element.
2. A transmission cable according to claim 1, **characterised** in that said support element (25, 35, 45) is rectangular in shape.
3. A transmission cable according to claim 1, **characterised** in that the support element is a square (25).
4. A transmission cable according to claim 1, **characterised** in that shape of the support element is a T-beam (55).
5. A transmission cable according to claim 1, **characterised** in that the shape of the support element is a surface (65) formed by two curved surfaces.
- 20 6. A transmission cable according to claim 1, **characterised** in that the signal cable is an inverted microstrip cable.
7. A transmission cable according to claim 1, **characterised** in that the signal cable is a coplanar cable.